



Storage Vessel Permit Application
Bureau of Air Quality
Part IIG

Bureau Use

Permit No.: _____
ID No.: _____
Date: _____
Reviewed By: _____

PLEASE REFER TO INSTRUCTIONS ON BACK BEFORE COMPLETING THIS FORM

1. Facility Name: _____ Storage Vessel Designation: _____

2. Physical Data: _____

a. Vessel Dimensions:

Shell Height: _____ (ft) Diameter: _____ (ft)
Shell Length: _____ (ft) Max. Volume: _____ (gal)

b. Material of Construction: Steel _____ Fiberglass _____ Other (Specify): _____

c. Paint Color: Aluminum _____ Gray _____ Red _____ White _____ Other (Specify): _____

d. Paint Shade: Specular _____ Diffuse _____ Light _____ Medium _____ Primer _____ Other _____

e. Vessel condition: Good _____ Fair _____ Poor _____

f. Vessel location: Aboveground _____ Underground _____

g. Vent Data:

Valve Type: Combination _____ Open _____ Pressure _____ Vacuum _____

No. of Vents: _____ Pressure Setting _____ Vacuum Setting _____

Discharge Vented to: _____ Vent Location (UTM, Lat/Long): _____

h. Roof Type: Fixed Roof (Dome/Cone) _____ External Floating Roof: _____ Internal Floating Roof: _____

3. Operating Data:

a. Material Stored: Pure _____ Mixture _____

| Component Name | CAS RN | MW | Density/Temperature | Weight Percent |
|----------------|--------|-------|---------------------|----------------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

b. Storage Conditions:

True Vapor Pressure: _____ kPa Maximum True Vapor Pressure: _____ kPa

Method Used to Determine Vapor Pressure: _____

Temperature: Min _____ (°F) Max _____ (°F)

Annual Throughput: _____ (gal) Turnovers per year _____

Vapor Loss Control Device Description: _____

c. Emission Rate at maximum annual throughput (lb/hr):

| Pollutant | Before Control Device | After Control Device | Method of Estimating Emissions |
|------------------|-----------------------|----------------------|--------------------------------|
| VOC | _____ | _____ | _____ |
| Other (Specify): | _____ | _____ | _____ |
| | _____ | _____ | _____ |

d. Normal Operating Schedule: _____ hours/day _____ days/week _____ weeks/yr

Seasonal Variation: Dec. - Feb. _____ % Mar. - May _____ % Jun. - Aug. _____ % Sept. - Nov. _____ %

e. How will waste materials from vessel cleanouts be disposed of? _____

PART IIG PERMIT APPLICATION INSTRUCTIONS FOR COMPLETING

PURPOSE:

To obtain the information needed to process applications for air permits and to maintain these permits. The information requested is used to determine whether a source must meet State and/or Federal Regulations and if the source is capable of achieving the applicable standards. Use Part IIG for storage vessels defined as any tank, reservoir, or container which stores petroleum or volatile organic compounds.

EXPLANATION AND DEFINITION:

In order to obtain a permit, the source must first complete and submit a permit application form. *Incomplete applications will not be processed.*

Item By Item Instructions:

Item 1. Under "Storage Vessel Designation" indicate the plant's designation for the tank (e.g., No. 1 Heavy Distillate Tank, etc.).

Item 2. Under "Physical Data" enter the tank dimensions in the appropriate spaces. In sections "b" through "f" and section "h" check the applicable information that describes the tank (circle "dome" or "cone" under roof type to specify the fixed roof type). Supply the appropriate data which applies to the vent(s) on the tank in section "g."

Item 3. Under "Operating Data" supply the appropriate data which applies to the material stored.

In section "a" check the description that applies to the material stored. Supply the additional information listed for each chemical constituent stored in the tank. Enter the Chemical Abstract Service Registry Number if defined for the chemical, the molecular weight, the constituent density and associated temperature, and the weight percent.

In section "b" provide data pertaining to the conditions under which the material is stored. Provide the true vapor pressure of the material as stored if the material is a petroleum liquid. Determine the true vapor pressure in accordance with methods described in American Petroleum Institute Bulletin 2517, Evaporation Loss from External Floating - Roof Tanks, Second Edition, February 1980. Provide the maximum true vapor pressure of the volatile organic liquid in accordance with methods described American Petroleum Institute Bulletin 2517, as obtained by standard reference texts, or ASTM method D2879-83. Note the method used to determine vapor pressure. Provide the annual net throughput in gallons per year, and the total number of turnovers per year (dimensionless).

In section "c" provide the pollution emission rate. Under "Method of Estimating Emissions" indicate whether stack test, AP-42, material balance, engineering calculation, etc., was used to calculate pollutant emissions rates.

In section "d" indicate the proposed operating schedule for the storage tank.

In section "e" note the method of disposal for any residuals (e.g., sludge, etc.) which may accumulate in the tank during the operating period.

OFFICE MECHANICS AND FILING:

In accordance with retention schedule HEC-AQC-3 break file at the end of each fiscal year, retain within the Agency for five additional years and then destroy.